

1 **ABSTRACT OF THE DISCLOSURE**

2 A parallel redundant power system and a method for control the same,
3 wherein the power system is composed by UPS modules with outputs coupled in
4 parallel to supply power to a load through a bus. The control method employs the
5 $P - \omega$ and $Q - V$ slope lines of the droop method to perform phase locking and
6 current sharing. Moreover, the method further utilizes the internal impedance of
7 the UPS in accompaniment with a current shift method to simulate an actual
8 inductor being coupled to the output of the UPS module so as to satisfy the droop
9 method. Therefore, the drawbacks otherwise caused from actual inductors such
10 as the large size and heave weight are eliminated.